ATTY. DOCKET NO. FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE APPLICATION NO. (REV.7-80) PATENT AND TRADEMARK OFFICE 501296.01 (30266/US) 10/773,583 APPLICANT(S) INFORMATION DISCLOSURE STATEMENT Douglas A. Larson and Jeffrey J. Cronin (Use feveral sheets if necessary) FILING DATE GROUP ART UNIT February 5, 2004 2186 U.S. PATENT DOCUMENTS DOCUMENT NOMBER •EXAMINER DATE NAME CLASS SUBCLASS FILING DATE INITIAL IF APPROPRIATE Dr 3,742,253 06/26/73 **Kronies** 307 247 4,831,520 05/16/89 Rubinfeld et al. 364 200 ΑB 5,313,590 05/17/94 **Taylor** 395 325 AC 5,687,325 11/11/97 Chang 395 284 AD 6,038,630 03/14/00 Foster et al. 710 132 ΑE 6,067,649 05/23/00 Goodwin 714 718 ΑF 6,487,556 B1 11/26/02 Downs et al. 707 AG 101 6,904,556 B2 06/07/05 Walton et al. 714 766 ΑH 6,947,672 B2 09/20/05 Jiang et al. 398 135 ΑI 07/01/04 Osborne et al. 711 2004/0128449 A1 137 ΑJ 2005/0166006 A1 07/28/05 Talbot et al. 711 105 FOREIGN PATENT DOCUMENTS COUNTRY DOCUMENT NUMBER DATE CLASS SUBCLASS TRANSLATION YES NO AL AM AN ΑO OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) AP AQ AR **EXAMINER** DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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ATTY. DOCKET NO. 501296.01 (30266/US)

APPLICATION NO. 10/773,583

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APPLICANT(S)
Douglas A. Larson and Jeffrey J. Cronin

FILING DATE

February 5, 2004

GROUP ART UNIT 2186

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DŊ	AA	4,608,702	08/26/86	Hirzel et al.	375	110		
	AB	4,891,808	01/02/90	Williams	370	112		
	AC	5,748,616	05/05/98	Riley	370	242		
	AD	6,208,180 B1	03/27/01	Fisch et al.	327	141		
	AE	6,889,304 B2	05/03/05	Perego et al.	711	170	·········	
4	AF	2003/0227798 A1	12/11/03	Pax	365	189.12		
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DD	AA	5,327,553	07/05/94	Jewett et a	al.	395	575		
1	AB	5,706,224	01/06/98	Srinivasar	n et al.	365	49		
	AC	6,131,149	10/10/00	Lu et al.		711	167		
	AD	6,219,725 B1	04/17/01	Diehl et al	l	710	26		
	AE	6,286,083 B1	09/04/01	Chin et al.		711	151		
	AF	6,493,803 B1	12/10/02	Pham et a	1.	711	147		
	AG	6,564,329 B1	05/13/03	Cheung et	al.	713	322		
	ΑН	6,665,202 B2	12/16/03	Lindahl et	al.	365	49		
	Al	6,845,409 B1	01/18/05	Talagala e	et al.	710	20		
	AJ	2003/0149809 A1	08/07/03	Jensen et	al.	710	22		
	AK	2004/0044833 A1	03/04/04	Ryan		711	5		
	ΑL	2004/0236885 A1	11/25/04	Fredriksso	on et al.	710	100		
4	AM	2005/0044327 A1	02/24/05	Howard e	t al.	711	147		
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DD	AA	4,953,930	09/04/90	Ramsey e	t al.	350	96.11		
	AB	5,987,196	11/16/99	Noble		385	14		
	AC	6,715,018 B2	03/30/04	Farnworth	ı et al.	710	300		
	AD	6,811,320 B1	11/02/04	Abbott		385	58		
	ΑE	6,821,029 B1	11/23/04	Grung et	al.	385	92		
	AF	2004/0126115 A1	07/01/04	Levy et al	•	398	116		
4	AG	2004/0144994 A1	07/29/04	Lee et al.		257	200		
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Douglas A. Larson and Jeffrey J. Cronin GROUP ART UNIT

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DD	АА	6,031,241	02/29/00	Silfvast e	t al.	250	504 R		
	AB	6,076,139	06/13/00	Welker et	al.	711	104		
	AC	6,134,624	10/17/00	Burns et a	ıl	710	131		
4	AD	2005/0071542 A1	03/31/05	Weber et	al.	711	105		
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ATTY. DOCKET NO. 501296.01 (30266/US)

APPLICATION NO. 10/773,583

APPLICANT(S)

Douglas A. Larson and Jeffrey J. Cronin

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$\mathcal{D}\mathcal{D}$	AA	4,240,143	12/16/80	Besemer et al.	364	200	
1	AB	4,245,306	01/13/81	Besemer et al.	364	200	
	AC	4,253,144	02/24/81	Bellamy et al.	364	200	
	AD	4,253,146	02/24/81	Bellamy et al.	364	200	
	AE	4,724,520	02/09/88	Athanas et al.	364	200	
	AF	4,930,128	05/29/90	Suzuki et al.	371	12	
	AG	5,269,022	12/07/93	Shinjo et al.	395	700	
	ΑН	5,317,752	05/31/94	Jewett et al.	395	750	
	AI	5,461,627	10/24/95	Rypinski	370	95.2	
	AJ	5,577,220	11/19/96	Combs et al.	395	416	
	AK	5,715,456	02/03/98	Bennett et al.	395	652	
	AL	5,832,250	11/03/98	Whittaker	395	471	
	AM	5,966,724	10/12/99	Ryan	711	105	
	AN	5,978,567	11/02/99	Rebane et al.	395	200.49	
	AO	6,023,726	02/08/00	Saksena	709	219	
	AP	6,098,158	08/01/00	Lay et al.	711	162	
	AQ	6,191,663 B1	02/20/01	Hannah	333	17.3	
	AR	6,201,724 B1	03/13/01	Ishizaki et al.	365	49	
	AS	6,249,802 B1	06/19/01	Richardson et al.	709	200	
	ΑТ	6,405,280 B1	06/11/02	Ryan	711	105	
	ΑU	6,434,696 B1	08/13/02	Kang	713	2	
	ΑV	6,438,622 B1	08/20/02	Haghighi et al.	710	1	
	AW	6,449,308 B1	09/10/02	Knight, Jr. et al.	375	212	
4	AX	6,453,393 B1	09/17/02	Holman et al.	711	154	

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DD	AY	6,501,471 B1	12/31/02	Venkataraman et al.	345	424	
	AZ	6,594,722 B1	07/15/03	Willke, II et al.	710	313	
	ВА	6,598,154 B1	07/22/03	Vaid et al.	712	237	
	вв	6,615,325 B2	09/02/03	Mailloux et al.	711	154	
	вс	6,628,294 B1	09/30/03	Sadowsky et al.	345	568	
	BD	6,658,509 B1	12/02/03	Bonella et al.	710	100	
	BE	6,697,926 B2	02/24/04	Johnson et al.	711	167	
	BF	6,718,440 B2	04/06/04	Maiyuran et al.	711	137	
	ВG	6,728,800 B1	04/27/04	Lee et al.	710	54	
	вн	6,735,682 B2	05/11/04	Segelken et al.	711	220	
	Ві	6,754,812 B1	06/22/04	Abdallah et al.	712	234	
	BJ	6,760,833 B1	07/06/04	Dowling	712	34	
	вк	6,775,747 B2	08/10/04	Venkatraman	711	137	
	BL	6,789,173 B1	09/07/04	Tanaka et al.	711	147	
	ВМ	6,792,496 B2	09/14/04	Aboulenein et al.	710	306	
	BN	6,795,899 B2	09/21/04	Dodd et al.	711	137	
	во	6,799,268 B1	09/28/04	Boggs et al.	712	228	
	ВР	6,804,760 B2	10/12/04	Wiliams	711	170	
	BQ	6,807,630 B2	10/19/04	Lay et al.	713	2	
	BR	6,820,181 B2	11/16/04	Jeddeloh et al.	711	169	
	BS	6,823,023 B1	11/23/04	Hannah	375	296	
	вт	2001/0039612 A1	11/08/01	Lee	713	2	
Ф	ВU	2002/0116588 A1	08/22/02	Beckert et al.	711	161	
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APPLICANT(S)

Douglas A. Larson and Jeffrey J. Cronin

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DD	AA	4,707,823	11/17/87	Holdren et al.	370	1	
	AB	5,241,506	08/31/93	Motegi et al.	365	210	
	AC	5,243,703	09/07/93	Farmwald et al.	395	325	
	AD	5,319,755	06/07/94	Farmwald et al.	395	325	
	ΑE	5,355,391	10/11/94	Horowitz et al.	375	36	
	AF	5,432,823	07/11/95	Gasbarro et al.	375	356	
	AG	5,465,229	11/07/95	Bechtolsheim et al.	345	477.	
	АН	5,502,621	03/26/96	Schumacher et al.	361	760	
	ΑI	5,566,325	10/15/96	Bruce, II et al.	395	494	
	LΑ	5,581,767	12/03/96	Katsuki et al.	395	800	
	AK	5,606,717	02/25/97	Farmwald et al.	395	856	
	AL	5,638,334	06/10/97	Farmwald et al.	365	230.03	
	АМ	5,819,304	10/06/98	Nilsen et al.	711	5	
	AN	5,928,343	07/27/99	Farmwald et al.	710	104	
	AO	5,973,935	10/26/99	Schoenfeld et al.	361	813	
	АР	5,973,951	10/26/99	Bechtolsheim et al.	365	52	
	AQ	6,029,250	02/22/00	Keeth	713	400	
	AR	6,061,296	05/09/00	Ternullo, Jr. et al.	365	233	
	AS	6,125,431	09/26/00	Kobayashi	711	154	
	АТ	6,175,571 B1	01/16/01	Haddock et al.	370	423	
	ΑU	6,185,352 B1	02/06/01	Hurley	385	114	
	AV	6,247,107 B1	06/12/01	Christie	711	216	,
	AW	6,294,937 B1	09/25/01	Crafts et al.	327	158	
4	AX	6,370,068 B2	04/09/02	Rhee	365	196	

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Douglas A. Larson and Jeffrey J. Cronin

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DD	AY	6,401,213 B1	06/04/02	Jeddeloh	713	401	
	AZ	6,430,696 B1	08/06/02	Keeth	713	503	
	ВА	6,434,736 B1	08/13/02	Schaecher et al.	716	17	
	вв	6,479,322 B2	11/12/02	Kawata et al.	438	109	
	вс	6,490,188 B2	12/03/02	Nuxoll et al.	365	63	
	BD	6,629,220 B1	09/30/03	Dyer	711	158	
	BE	6,646,929 B1	11/11/03	Moss et al.	365	194	
	BF	6,662,304 B2	12/09/03	Keeth et al.	713	400	
	BG	6,667,895 B2	12/23/03	Jang et al.	365	63	!
	вн	6,721,195 B2	04/13/04	Brunelle et al.	365	63	
	BI	6,724,685 B2	04/20/04	Braun et al.	365	233	
	BJ	6,735,679 B1	05/11/04	Herbst et al.	711	167	
	вк	6,745,275 B2	06/01/04	Chang	710	305	
	BL	6,751,703 B2	06/15/04	Chilton	711	113	
	вм	6,756,661 B2	06/29/04	Tsuneda et al.	257	673	
	BN	6,771,538 B2	08/03/04	Shukuri et al.	365	185.05	
	во	6,792,059 B2	09/14/04	Yuan et al.	375	354	
	ВР	6,799,246 B1	09/28/04	Wise et al.	711	117	
	BQ	6,804,764 B2	10/12/04	LaBerge et al.	711	170	
	BR	6,816,947 B1	11/09/04	Huffman	711	151	
	BS	2003/0043158 A1	03/06/03	Wasserman et al.	345	545	
	вт	2003/0093630 A1	05/15/03	Richard et al.	711	154	
	ВU	2003/0163649 A1	08/28/03	Kapur et al.	711	146	
4	в٧	2003/0177320 A1	09/18/03	Sah et al.	711	158	

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INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO. 501296.01 (30266/US)

APPLICATION NO. 10/773,583

APPLICANT

Douglas A. Larson and Jeffrey J. Cronin

FILING DATE February 5, 2004 GROUP ART UNIT 2186

DOCUMENT NUMBER AA 4,045,781 AB 5,479,370 AC 5,729,709 AD 5,875,454 AE 6,186,400 B1 AF 6,243,831 B1 AG 6,256,692 B1		Levy et al. Furuyama et al. Harness Craft et al. Dvorkis et al.	364 365 395 711	SUBCLASS 200 189.12 405 113	FILING IF APPRO	
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY. DOCKET NO. 501296.01 (30266/US) APPLICATION NO. 10/773,583

APPLICANT(S)

Douglas A. Larson and Jeffrey A. Cronin

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INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

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Sheet 1 of 1 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY. DOCKET NO. APPLICATION NO. **FORM PTO-1449** (REV.7-80) 501296.01 (30266/US) 10/773,583 APPLICANT(S) SURE STATEMENT Douglas A. Larson and Jeffrey J. Cronin els if necessary) GROUP ART UNIT FILING DATE Not Yet Assigned February 5, 2004 **U.S. PATENT DOCUMENTS** SUBCLASS FILING DATE CLASS DOCUMENT NUMBER DATE NAME *EXAMINER IF APPROPRIATE INITIAL 365 63 6,462,978 B2 10/08/02 Shibata et al. AB AC AD ΑĒ ΑF AG ΑH ΑI ΑJ FOREIGN PATENT DOCUMENTS SUBCLASS TRANSLATION COUNTRY CLASS DATE DOCUMENT NUMBER NO AK ΑL ΑM AN ΑO OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) ΑP ΑQ

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D ()	AA	5,251,303	10/05/93	Fogg, Jr.	et al.	395	275	·
	АВ	5,432,907	07/11/95	Picazo, Ji	r. et al.	395	200	
	AC	5,442,770	08/15/95	Barratt		395	403	
	AD	5,497,476	03/05/96	Oldfield e	et al.	395	439	
	AE	5,659,798	08/19/97	Blumrich	et al.	395	846	
	AF	5,818,844	10/06/98	Singh et a	al.	370	463	
	AG	5,875,352	02/23/99	Gentry et	al.	395	843	
	АН	6,061,263	05/09/00	Boaz et a	1.	365	51	
	Al	6,067,262	05/23/00	Irrinki et	al.	365	201	
	AJ	6,073,190	06/06/00	Rooney		710	56	
	AK	6,105,075	08/15/00	Ghaffari		710	5	
	AL	6,137,709	10/24/00	Boaz et a	l.	365	51	
	АМ	6,144,587	11/07/00	Yoshida		365	189.05	
	AN	6,167,465	12/26/00	Parvin et	al.	710	22	
	AO	6,167,486	12/26/00	Lee et al.		711	120	
	АР	6,201,724 B1	03/13/01	Ishizaki e	et al.	365	49	
	AQ	6,233,376 B1	05/15/01	Updegrov	/e	385	14	
	AR	6,243,769 B1	06/05/01	Rooney		710	56	
	AS	6,246,618 B1	06/12/01	Yamamo	to et al.	365	200	
	АТ	6,272,609 B1	08/07/01	Jeddeloh		711	169	
	ΑU	6,285,349 B1	09/04/01	Smith		345	147	
	ΑV	6,301,637 B1	10/09/01	Krull et a	1.	711	112	
	AW	6,327,642 B1	12/04/01	Lee et al.		711	120	
	AX	6,330,205 B2	12/11/01	Shimizu e	et al.	365	230.06	•
AY 6,347,055 B1 02/12/02 Motomu			Motomur		365	189.05		
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	ВА	6,356,573 B1	03/12/02	Jonsson et al.	372	46	
	ВВ	6,367,074 B1	04/02/02	Bates et al.	717	11	
	вс	6,373,777 B1	04/16/02	Suzuki	365	230.03	·
	BD	6,381,190 B1	04/30/02	Shinkai	365	230.03	
	BE	6,421,744 B1	07/16/02	Morrison et al.	710	22	
	BF	6,434,639 B1	08/13/02	Haghighi	710	39	
	BG	6,463,059 B1	10/08/02	Movshovich et al.	370	389	
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	BL	6,477,621 B1	11/05/02	Lee et al.	711	120	
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	BN	6,505,287 B2	01/07/03	Uematsu	711	170	
	во	6,539,490 B1	03/25/03	Forbes et al.	713	401	
	ВР	6,552,564 B1	04/22/03	Forbes et al.	326	30	
	BQ	6,587,912 B2	07/01/03	Leddige et al.	711	5	
	BR	6,590,816 B2	07/08/03	Perner	365	200	_
	BS	6,594,713 B1	07/15/03	Fuoco et al.	710	31	
	вт	6,622,227 B2	09/16/03	Zumkehr et al.	711	167	
	вU	6,631,440 B2	10/07/03	Jenne et al.	711	105	
	в٧	6,523,092 B1	02/18/03	Fanning	711	134	
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U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO. APPLICATION NO. FORM PTO-1449 PATENT AND TRADEMARK OFFICE (REV.7-80) 501296.01 (30266/US) Not Yet Assigned APPLICANT(S) INFORMATION DISCLOSURE STATEMENT Douglas A. Larson and Jeffrey J. Cronin (Use several sheets if necessary) GROUP ART UNIT FILING DATE Not Yet Assigned Concurrently herewith **U.S. PATENT DOCUMENTS** DOCUMENT NUMBER DATE CLASS SUBCLASS *EXAMINER NAME FILING DATE INITIAL. IF APPROPRIATE DU 08/15/02 Halbert et al. 711 115 2002/0112119 A1 вх 10/03/02 **Fanning** 711 144 2002/0144064 A1 BY 01/02/03 Coulson et al. 711 118 2003/0005223 A1 ΒZ 03/06/03 Baker et al. 359 109 2003/0043426 A1 CA 12/11/03 Jeddeloh 711 213 СB 2003/0229770 A1 FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER COUNTRY CLASS SUBCLASS TRANSLATION DATE YES NO CC CD CE CF OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Intel, "Intel 840 Chipset: 82840 Memory Controller Hub (MCH)", Datasheet, October 1999, pp. 1-178. CG Micron Technology, Inc., "Synchronous DRAM Module 512MB/1GB (x72, ECC) 168-PIN Registered FBGA SDRAM DIMM", Micron Technology, Inc., 2002, pp. 1-23. СН CI CJ CK CL DATE CONSIDERED **EXAMINER** * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).